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08447496 - GAU: 2456
PTO Serial No. 08/447,496
Docket No. 5634.0121

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

John C. Harvey and James W. Cuddihy:

Group Art Unit: 2699

2611

Serial No.: 08/447,496

Examiner: FAILE, A.

Filed: May 23, 1995

Atty. Docket: 05634.0121

For: **SIGNAL PROCESSING APPARATUS
AND METHODS**

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Technology Center 2600

TRANSMITTAL LETTER

Assistant Commissioner of Patents
Washington, D.C. 20231

- ☒ Information Disclosure Statement;
☒ PTO FORM 1449;
☐ A fee of \$180.00 is required, and is calculated as shown below:

	(Col 1)		(Col 2)	(Col 3)		
	Claims Remaining After Amendment		Highest No. Previously Paid for	Present Extra	Rate	Additional Fee
Total	*	Minus	**	=0	x \$ 18.00	\$0.00
Indep.	*	Minus	***	=0	x \$ 78.00	\$0.00
First Presentation of Mult. Dep. Claim					x \$ 260.00	\$0.00
Fee under 37 C.F.R. § 1.17(p).						\$0.00
Total Fee Enclosed						\$0.00

- * If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.
** If the "Highest Number Previously Paid For" in this space is less than 20, write "20" in this space.
*** If the "Highest Number Previously Paid For" in this space is less than 3, write "3" in this space. "The Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

- ☐ HUNTON & WILLIAMS check no. _____ in the amount of \$180.00 is enclosed.
☒ The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 50-0206.

- ☒ Any filing fees under 37 CFR 1.16 for the presentation of extra claims.
☒ Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

Thomas J. Scott, Jr.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants John C. Harvey and
James W. Cuddihy

Serial No. 08/447,496

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For : SIGNAL PROCESSING APPARATUS AND METHODS

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Box: NON-FEE AMENDMENTCommissioner for Patents
Washington, D.C. 20231**RECEIVED**

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

I. Description of the References

The references identified in this Supplemental Information Disclosure Statement ("Supplemental IDS") can be grouped into two categories. *First*, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

Second, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

II. Description of Corrections

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application number. The correct identification of this reference is publication number FR 2,417,226.
- With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified. Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A

corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.

- Applicants' Information Disclosure Statement filed on April 7, 1997 contained a number of inadvertent errors. This Supplemental IDS corrects errors in the April 7, 1997 document. Accordingly, the April 7, 1997 IDS should be withdrawn from consideration and this Supplemental IDS should be substituted for the April 7, 1997 IDS.

III. Concise Explanations of Foreign Language References

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS. Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

IV. Conclusion

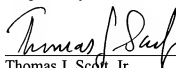
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS where applicants have previously provided copies of all of the references cited herein in related applications. Applicants are presently providing newly acquired translations of three Japanese patent applications, 58-99817, 56-84340 and 58-29020 in applicants' application number 08/113,329, pursuant to the same agreement mentioned above.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No statement under 37 C.F.R. § 1.97(e) or fee is required. 37 C.F.R. § 1.97(b).

Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 19, 2002
HUNTON & WILLIAMS
1900 K Street, N.W.
Washington, DC 20006

Respectfully submitted,



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APPENDIX A

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
20,242	12/10/80	EPO	G09G 1/16	X	
46,108	02/17/82	EPO	H04N 5/76	X	
49,184	04/07/82	EPO	G09B 7/08	X	
53,984**		Japan		X	
55,167	06/30/82	EPO	G09G 1/16	X	
55,674	07/07/82	EPO	07/07/82		
56,649	07/28/82	EPO	H04N 5/44		
481,565	04/29/76	Australia			
77,712	04/27/83	EPO	H04N 7/00	X	
78,185	05/04/83	EPO	H04N 7/00	X	
103,438	03/21/84	EPO	H04N 7/10		
128,481	12/19/84	EPO	H04N 7/00		
132,007	01/23/85	EPO	H04N 7/16		
133,985	03/13/85	EPO	H 04 N 7/087		
152,251	08/21/85	EPO	H04H 1/2		
187,417	07/16/86	EPO	H04 N 7/087		
206,821	12/30/86	EPO	H04N 7/00		
217,308	04/08/87	EPO	H04M 11/00		
857,862	7/4/61	Great Britain	40 (1)		
959,274	05/27/64	Great Britain			
1,066,931	04/26/67	Great Britain	G 07c		
1,189,612	06/25/85	Canada	Ho4n 7/08		
1,204,190	09/03/70	Great Britain			
1,213,357	11/25/70	Great Britain			
1,216,977	01/20/87	Canada	HO4M 11/00		
1,370,535	10/16/74	Great Britain	G09G1/16		
1,396,981	06/11/75	Great Britain	H04H 1/00		
1,515,309	06/21/78	Great Britain	G06 K 15/20		
1,523,307	08/31/78	Great Britain	H03K 5/08		
1,543,502	04/04/79	Great Britain	G08B9/00		
1,554,411	10/17/79	Great Britain	H04b 3/54		
1,556,366	11/21/79	Great Britain			
1,582,563	01/14/81	Great Britain	G08B9/00		
1,584,111	02/04/81	Great Britain	G08B9/00		
2,016,874	02/01/79	Great Britain			
2,033,699	05/21/80	Great Britain	H04L 1/10, 1/40		
2,034,995	06/11/80	Great Britain	H03J 7/18, 5/00		

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DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
2,051,527	01/14/81	Great Britain	G06F 3/153		
2,058,681	06/15/72	Germany	H04N 7/08	X	
2,067,379	07/22/81	Great Britain	H04L 1/24		
2,081,948	02/24/82	Great Britain	H04Q 9/00		
2,090,504	07/07/82	Great Britain	H04N 3/16		
2,103,455	02/16/83	Great Britain	H04N 1/00 7/12		
2,126,002	03/14/84	Great Britain	G11B 15/02		
2,140,963	12/05/84	Great Britain			
2,141,897	01/03/85	Great Britain	H04N 7/16		
2,164,229	03/12/86	Great Britain			
2,167,917	06/04/86	Great Britain			
2,185,670	07/22/87	Great Britain	H04N 7/087		
2,338,380	02/13/75	Germany		X	
2,356,969	05/22/75	Germany			X
2,417,226	02/01/79	France		X	
2,453,441	05/13/76	Germany	H04L 9/00	X	
2,496,376	06/18/82	France	H04N 7/00	X	
2,516,733	05/05/83	France	H04N 7/00	X	
2,550,624	05/26/77	Germany		X	
2,823,175	11/29/79	Germany	G06F 3/12	X	
2,831,014	04/03/80	Germany		X	
2,853,764	01/29/81	Germany		X	
2,904,891	08/16/79	Germany			X
2,918,846	11/13/80	Germany	F26B 12/02		X
3,020,787	12/17/81	Germany	H04N 7/08	X	
3,039,949	05/06/82	Germany	H04M 3/42	X	
3,112,249	10/07/82	Germany	G09G 1/28	X	
3,143,627	05/11/83	Germany			X
3,337,204	04/25/85	Germany	H04N 5/44	X	
53-068124	06/17/78	Japan			X
53-11515	02/02/78	Japan		X	
53-121420	10/23/78	Japan		X	
55-028691	02/29/80	Japan			X
55-26792	02/26/80	Japan		X	
55-49084	04/08/80	Japan			X
55-500886	10/30/80	Japan		X	
55-79585	06/16/80	Japan		X	
56-47179	04/28/81	Japan			X
56-51161	05/08/81	Japan			X
57-199377	12/07/82	Japan			X
58-156279	09/17/83	Japan		X	

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
58-209276	12/06/83	Japan			X
59-154886	09/03/84	Japan			X
59-160387	09/11/84	Japan	H04N 7/10		X
59-224988	12/17/84	Japan			X
59-501340	03/23/84	Japan		X	
60-123182	07/01/85	Japan			X
60-146587	08/02/85	Japan		X	
60-149281	08/06/85	Japan		X	
60-256289	12/17/85	Japan	H04N 7/173		X
60-61935	04/09/85	Japan	G11B15/02	X	
61-148988	07/07/86	Japan	H04N 7/173		X
61-174889	08/06/86	Japan		X	
61-20441	01/29/86	Japan		X	
61-267474	11/27/86	Japan		X	
61-50470	03/12/86	Japan	H04N 5/44	X	
PL 204,525	02/09/78	Poland		X	
WO 80/00292	02/21/80	PCT Appl.	H04N9/16	X	
WO 80/02093	10/02/80	PCT Appl.	H04B 1/20		
WO 80/02901	12/24/80	PCT Appl.	H04N 7/16	X	
WO 81/02961	10/15/81	PCT Appl.	H04N 7/16, 7/04		
WO 83/00789	03/03/83	PCT Appl.	H04N 7/08	X	
WO 85/03604	08/15/85	PCT Appl.	H03K 3/84		
WO 85/03830	08/29/85	PCT Appl.	H04N 7/16		
WO 87/04884	08/13/87	PCT Appl.	H04M 11/08		

** Japanese reference 53,984 to Jinno was cited by the Examiner in Application No. 08/470,447. The Examiner did not supply a publication date and applicants have been unable to determine a publication date for this reference.

APPENDIX B**Concise Explanations for Foreign References****JP 61-174889 August 6, 1986 Japan**

Foreign language patent JP 61-174889 came to applicants' attention during the prosecution of applicants' applications pending in Japan.

FR 2,417,226 February 1, 1979 France
PL 204,525 February 9, 1978 Poland

The French reference 2,417,226 and Polish reference PL 204,525 are both applications filed by Zaboklicki. The PTO has cited the German application filed by Zaboklicki which claims priority to the Polish Zaboklicki application. Translations of the German Zaboklicki application have been provided to the Examiner.

DE 2,831,014 April 3, 1980 Germany

The German reference DE 2,831,014 was applied by the Examiner in the September 4, 2001 Office Action in Application No. 08/487,526.

JP 55-26792 February 26, 1980 Japan

The Japanese reference JP 55-26792 was applied by the Examiner in the August 27, 2001 Office Action in Application No. 08/470,571.

WO 80/02901 December 24, 1980 France

The WO 80/02901 reference discloses a television system with a double key encryption service for subscription television.

DE 3,337,204 April 3, 1980 Germany

German reference DE 3,337,204 discloses a viewer interactive program schedule.

The following Japanese references were identified on applicants' on May 11, 2001 IDS, but explanations were unintentionally not provided. All of these applications came to applicants' attention during the prosecution of applicants' applications pending in Japan.

JP 53-11515	February 2, 1978	Japan
JP 53-121420	October 23, 1978	Japan
JP 55-500886	October 30, 1980	Japan
JP 59-501340	March 23, 1984	Japan
JP 60-146587	September 2, 1985	Japan
JP 61-20441	January 29, 1986	Japan
JP 61-267474	November 27, 1986	Japan

The following references were cited on PTO form 892 by the Examiners in applicants related pending applications.

JP 58-156279	September 17, 1983	Japan
JP 55-79585	June 16, 1980	Japan

23 38 380 February 13, 1975 Germany

This reference discloses television receivers that transmit control signals to a decoder/processor combination.

61-050470 March 12, 1986 Japan

This reference discloses a program engagement device that displays the program content at a television receiver and includes a display output control device.

60-61935 April 9, 1985 Japan

This reference discloses a system that generates, detects, communicates, and/or converts digital signals.

2 058 681 June 15, 1972 Germany

This reference discloses a television mode arrangement for transmitting, receiving, and presenting coded information.

0 020 242 December 10, 1980 European

This reference discloses a teletext character alignment process.

0 046 108 February 17, 1982 European

This reference discloses a integrated circuit interface between a television receiver and recorder.

0 049 184 April 7, 1982 European

This reference discloses a pocket teaching aid using a television receiver with a teletext system.

0 055 167 June 30, 1982 European

This reference discloses a teletext CRT display for messages from a composite memory.

0 077 712 April 27, 1983 European

This reference discloses a multi-channel digital packet television broadcasting system.

0 078 185 May 4, 1983 European

This reference discloses a digital packet broadcasting system using television transmissions.

2 496 376 June 18, 1982 France

This reference discloses a teletext display of data on the television screen.

2 516 733 May 5, 1983 France

This reference discloses an error controller for a teletext television decoder.

2 823 175 November 29, 1989 Germany

This reference discloses a teletext information display for television transmission.

24 53 441 May 13, 1976 Germany

This reference discloses a wideband signal transmission with digital to image signal conversion.

DE 30339949 May 6, 1982 Germany

This reference discloses a method for the generation of teletext display having a color character contrast.

DE-3112249—October 7, 1982 Germany

This reference discloses a processing signals from either a colored television receiver or from a video text decoder.

DE 3020787 December 17, 1981 Germany

This reference discloses a television transmission system that sends extra data during a blanking period.

WO 80/00292 February 21, 1980 Japan

This reference discloses a decoder for a television receiver that has a color component that splits signals and recombines the signals into a composite drive current signal.

WO 83/00789 March 3, 1983 Japan

This reference discloses an image display unit which displays received image signals via a memory, wherein the image signals include teletext displays of weather reports or television programs.

Graf, P.H., "Antiope-Uebertragung fuer Breitbandige Videotex-Verteildienste," 1981.

This reference shows an Antiope demodulator/detector.

Heller, Arthur, "VPS - Ein Neues System Zuragsgesteurten Programmanzeichnung, Rundfunk technische Mitteilungen, pp. 162-169.

This reference discloses a decoding system for use with a VCR.

Marti, B et al., Discrete, service de television cryptee, Revue de radiodiffusion - television (1975), pp. 24-30.

This reference discloses an analog decryption system.

Strauch, D., "(Las Media De Telecommunication Devant la Rapture. Les Nonvellas Methodes Presentees a L'Eposition International 1979 de Radio (Et Television)) 1979.

This reference is a discussion of videotext, teletext, ceefax, oracle, and antiope.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Attorney Docket No.

Serial No.

05634.0121

08/447,496

Applicant(s)

John C. Harvey and James W. Cuddihy

Filing Date

May 23, 1995

Group Art Unit

2699



UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,992,271	02/26/35	Williams		09/17/31
	2,046,381	07/07/36	Hicks et al.	12/10/30	
	2,192,217	03/05/40	Bellamy, et al.	07/15/29	
	2,217,881	10/15/40	Allen		02/18/32
	2,236,077	03/25/41	Smith		05/29/30
	2,264,563	12/02/41	Bumstead		01/02/32
	2,570,209	10/09/51	Cotsworth, III	05/01/48	
	2,855,993	10/14/58	Rahmel	358/84	03/19/54
	2,995,624	08/08/61	Watters		03/11/59
	3,011,153	11/28/61	Haselton et al.	05/23/56	
	3,029,308	04/10/62	Adler et al.	09/22/58	
	3,082,402	03/19/63	Scantlin		05/10/60
	3,366,731	01/30/68	Wallerstein	08/11/67	
	3,612,752	10/12/71	Banning, Jr.	178/5.1	06/22/66
	3,764,983	10/09/73	Stok	340/150	05/03/72
	3,778,058	12/11/73	Rausch	463/3	06/17/71
	3,778,721	12/11/73	Moran	325/396	09/08/72
	4,035,838	07/12/77	Bassani et al.	358/86	03/16/76
	4,059,729	11/22/77	Eddy et al.	179/15 BF	06/09/76
	4,061,879	12/06/77	Wintzer	179/15 BA	09/29/75
	4,162,483	07/24/79	Entenman	340/147 R	04/01/77
	4,199,791	04/22/80	Corey	360/69	04/17/78
	4,225,918	09/30/80	Beadle et al.	364/200	03/09/77
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
	4,365,249	12/21/82	Tabata	340/825.3	09/29/80
	4,380,027	04/12/83	Leventer et al.	358/147	12/08/80
	4,383,273	05/10/83	Lunn	348/725	12/29/80
	4,386,416	05/31/83	Giltner et al.	364/900	06/02/80
	4,426,698	01/17/84	Pargee, Jr.	371/37	08/24/81
	4,495,623	01/22/85	George et al.	371/38	09/02/82
	4,532,540	07/30/85	Wine	358/12	03/28/83
	4,644,396	02/17/87	Iwasaki	380/6	05/24/85
	4,825,050	04/25/89	Griffith et al.	235/379	09/13/83
	Re. 33,808	01/28/92	Wright, Jr.	358/86	08/28/85

* If Pertinent

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO YES
	1,204,190	09/03/70	Great Britain		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.B./

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
	1,213,357	11/25/70	Great Britain			
	2,164,229	03/12/86	Great Britain			
	2,167,917	06/04/86	Great Britain			
	2,356,969	05/22/75	Germany			X
	2,831,014	04/03/80	Germany		X	
	53-068124	06/17/78	Japan		X	
	55-26792	02/26/80	Japan		X	
	55-49084	04/08/80	Japan			X
	55-79585	06/16/80	Japan		X	
	58-156279	09/17/83	Japan		X	
	58-209276	12/06/83	Japan			X
	59-224988	12/17/84	Japan			X
	60-123182	07/01/85	Japan			X
	61-174889	08/06/86	Japan		X	

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OTHER DOCUMENTS

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Examiner Initial	Date, Author, Title, Pertinent Pages, Etc.
	"Advanced Minicomputer-based Systems for Banking and Financial Institutions," Money Management Systems, Incorporated, brochure, 1980, 9 pages.
	"Advanced Transmission Techniques," SMPTE Journal, Report on the 121st Technical Conference, January 1980, Vol. 89, pp. 31-32.
	"American National Standard" "dimensions of video, audio and tracking control records on 2-in video magnetic tape quadruplex recorded at 15 and 7.5 in/s," SMPTE Journal, October 1981, pp. 988-989.
	"American National Standard" "time and control code for video and audio tape for 525-line/60-field television systems," SMPTE Journal, August 1981, pp. 716-717.
	"Anderson: Progress Committee Report for 1979 - Television," SMPTE Journal, May 1980, Vol. 89, pp. 324-328.
	"Application of Direct Broadcast Satellite Corporation for a Direct Broadcast Satellite System," Before the Federal Communications Commission, Washington, D.C., Gen. Docket No. 80-603, July 16, 1981.
	"Cable TV Advertising," Paul Kogan Associates, Inc., No. 22, Feb. 18, 1981, 6 pages.
	"CAMP," Arbitron Cable, The Arbitron Company, product brochure, May 1980, 8 pages.
	"Contraband code," Closed Circuit, Broadcasting, Sep. 28, 1970, 1 page.
	"Did the ad run?," Media Decisions, July 1969, pp. 44 et seq.
	"Digisonics pushes its coding method," Broadcasting, Dec. 7, 1970, p. 37.
	"DIGISONICS TV Monitor System Finds Defenders," Advertising Age, Dec. 8, 1969, 1 page.
	"Digisonics violated standards, says BAR," Broadcasting, Oct. 5, 1970, pp. 21-23.
	"Digisonics' Aim Is Info Bank, Not Just Proof of Performance," Advertising Age, Nov. 9, 1970, 4 pages.
	"Digisonics' dilemma," Media Decisions, June 1971, 6 pages.
	"Everything you've always wanted to know about TV RATINGS," A.C. Nielsen Company, brochure, 1978.
	"How to increase training productivity through VIDEODISC and MICROCOMPUTER systems," seminar brochure, 1981.
	"IDC begins monitoring," At Deadline, Broadcasting, Sep. 14, 1970, p. 9.
	"IDC encoding system still alive at FCC," Broadcasting, Sep. 27, 1971, p. 31.
	"In this corner, DIGISONICS!," Media Decisions, June 1968, 5 pages.
	"Index to SMPTE-Sponsored American National Standards, Society Recommended Practices, and Engineering Committee Recommendations," 1980 Index to SMPTE Journal, SMPTE Journal, pp. I-15 to I-20.

Examiner Initial	Date, Author, Title, Pertinent Pages, Etc.
	"Index to Subjects - January-December 1976 • Volume 85," 1976 Index to SMPTE Journal, SMPTE Journal, Vol. 85, pp. 1-5 to 1-13, 1-15.
	"Index to Subjects - January-December 1977 • Volume 86," 1977 Index to SMPTE Journal, SMPTE Journal, Vol. 86, pp. 1-5 to 1-14.
	"Index to Subjects - January-December 1979 • Volume 88," 1979 Index to SMPTE Journal, SMPTE Journal, Vol. 88, pp. 1-4 to 1-10.
	"Index to Subjects - January-December 1980 • Volume 89," 1980 Index to SMPTE Journal, SMPTE Journal, pp. 1-5 to 1-11.
	"Index to Volume 87 January-December 1978," SMPTE Journal, Part II to January 1979 SMPTE Journal, pp. 1-1, 1-4 to 1-14.
	"Listeners," Closed Circuit, Broadcasting, 1 page.
	"Management With The Nielsen Retail Index System," A.C. Nielsen Company, 1980.
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